

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP 03/ 16921

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl? C22F 1/04 , F28F 21/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl? C22F 1/04 - 1/057, C22C 21/00 - 21/12, F28F 21/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-119784 A (SUMITOMO LIGHT METAL IND., CO.) 2000.04.25, Claims, [0001], [0016] - [0023], TABLE1, TABLE2 (Family:none)	1-4
A	JP 2002-348624 A (SUMITOMO LIGHT METAL IND., CO.) 2002.12.04, Claims, [0001] - [0004], [0020] - [027], TABLE1, TABLE2, TABLE3 & US 2003/0000610 A1	5-14
A	JP 11-172387 A (FURUKAWA ELECTRIC CO., LTD.) 1999.06.29, Claims, [0001], [0041] - [0049], TABLE1, TABLE5 (Family:none)	1-14
A	US 2001/0025676 A1 (Kazuo TAGUCHI) 2001.10.04, Claims, [0008] - [0012], [0020] - [0022], [0120] - [0132], TABLE1, TABLE3 & WO 00/73529 A1	1-14



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

26.03.2004

Date of mailing of the international search report

13.4.2004

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 11-172388 A(FURUKAWA ELECTRIC CO., LTD.) 1999.06.29, Claims, [0002] - [0004], [0009] (Family:none)	1-14
A	Japan Light Metal Association, Handbook of Aluminum(5th ed.), 1994, page 11, 25, 31, 273-275	1-14
A	JP 2001-342532 A(FURUKAWA ELECTRIC CO., LTD.) 2001.12.14, Claims (Family:none)	1-14